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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/614,297	07/08/2003	Kevin Bradley Akins	01473.401400	7394
5514 75	590 09/19/2005		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO			PRONE, JASON D	
30 ROCKEFEI NEW YORK,			ART UNIT PAPER NUMBER	
10141,			3724	

DATE MAILED: 09/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/614,297 AKINS ET AL.		
Office Action Summary		Examiner	Art Unit	_
		Jason Prone	3724	
Period f	The MAILING DATE of this communion Reply	nication appears on the cover sheet wi	th the correspondence address	,
WHI - Exte afte - If N - Fail Any	CHEVER IS LONGER, FROM THE IT ensions of time may be available under the provision or SIX (6) MONTHS from the mailing date of this come to period for reply is specified above, the maximum sure to reply within the set or extended period for reply	FOR REPLY IS SET TO EXPIRE 3 MAILING DATE OF THIS COMMUNION S of 37 CFR 1.136(a). In no event, however, may a remunication. Itatutory period will apply and will expire SIX (6) MON y will, by statute, cause the application to become AE after the mailing date of this communication, even if	CATION. eply be timely filed THS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) file	ed on <i>12 July 2005</i> .		
,—	This action is FINAL .	2b)⊠ This action is non-final.	•	
		for allowance except for formal matt	ers, prosecution as to the merits	is
- /		tice under <i>Ex parte Quayl</i> e, 1935 C.D		
Disposit	tion of Claims			
· _	Claim(s) 1-33 is/are pending in the	application.		
7/23	4a) Of the above claim(s) <u>19-33</u> is/a			
5)□	Claim(s) is/are allowed.			
•=	Claim(s) <u>1,2,4-7 and 12-16</u> is/are re	ejected.		
•	Claim(s) <u>3,8-11,17 and 18</u> is/are ob			
•	Claim(s) are subject to restri			
Applicat	tion Papers			
•	The specification is objected to by the			
10)🛛	•	is/are: a) accepted or b) dobject		
		ection to the drawing(s) be held in abeyar		47.05
—		g the correction is required if the drawing		
11)∐	The oath or declaration is objected	to by the Examiner. Note the attached	Oπice Action or form P1O-152.	
Priority	under 35 U.S.C. § 119			
•	Acknowledgment is made of a claim) All b) Some * c) None of:	for foreign priority under 35 U.S.C. §	119(a)-(d) or (f).	
,	· — · · —	documents have been received.		
		documents have been received in A	pplication No	
	3. Copies of the certified copies	of the priority documents have been	received in this National Stage	
	application from the Internati	onal Bureau (PCT Rule 17.2(a)).		
		•		

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 7/8/03.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Attachment(s)

4) Interview Summary (PTO-413)

6) Other: ____.

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

Art Unit: 3724

DETAILED ACTION

Information Disclosure Statement

1. The I.D.S. filed 08 July 2003 has been considered, however, the second item in the "Other Documents" section (Urschel, "How to Cut Dairy Food Products", Urschel Laboratories, Inc., October, 2002; pp. 1-6) had not been submitted and, therefore, was not considered.

Election/Restrictions

- 2. Applicant's election without traverse of Group I in the reply filed on 12 July 2005 is acknowledged.
- 3. Claims 19-33 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 12 July 2005.

In regards to the argument of the separation of claims 19-31 (group II) and claims 32 and 33 (group III), the argument is persuasive and claims 19-33 would be examined together if they had been elected. Group I was elected without traverse over groups II and III, so the previous argument is not relevant to the instant application.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: In Figure 2, item "226". In Figure 3, item "606". Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are

Art Unit: 3724

required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

5. The drawings are objected to because In Figure 4, the lower occurrence of item "234" should be replaced with "232". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required

Art Unit: 3724

corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

6. The disclosure is objected to because of the following informalities: On line 1 of paragraph [0042], the phrase "chopping assembly 426" should be replaced with "chopping assembly shroud 426".

On line 10 of paragraph [0047], the phrase "chopping recess 618" should be replaced with "chopping recess 616"

On lines 16-26 of paragraph [0048], the phrases "a first pair of circular blades 202...spaced apart a first distance d1 apart", "a second pair of circular blades 202...spaced apart a second distance d2 apart", "a third pair of circular blades 202...spaced apart a third distance d3 apart", and "a fourth pair of circular blades 202...spaced apart a fourth distance d4 apart" are not correct. For example the first phrase says that the first blade are spaced a distance d1 apart, however, Figure 5 discloses that the first blades are actually spaced apart a distance equal to twice the distance of d1. The following goes for each of the 4 distances d1-d4.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 3724

8. Claims 1, 2, 4, 5, 7, 12, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Allen (95,406) (see page 11 of this Office action for examiner added reference numerals for clarity).

In regards to claim 1, Allen discloses the same invention including a conveyor assembly that conveys the product in a feed direction and defines a conveyance surface (C and K), a slitter assembly positioned relative to and coupled to the conveyor assembly (1a-g), the slitter assembly includes a plurality of cutting elements (1a-g) arranged in a V shape as viewed in a direction substantially normal to the conveyance surface (Fig. 2), and the cutting elements overlap one another in the feed direction (Fig. 1).

In regards to claims 2 and 4, Allen discloses an opening of the V shape is oriented in a leading direction (2) and the pointed end of the V shape is oriented in a trailing direction (3) such that the product will be fed to the slitter from the open end of the V shape by the conveyor (K), and the plurality of cutting elements comprise a circular blade (1a-g).

In regards to claim 5, Allen discloses the slitter assembly further comprises a drive means for driving the circular blades (E) such that the tangential velocity of the blades is substantially greater than the velocity at which the product is conveyed (inherent).

In regards to claim 7, Allen discloses a slitter frame (A) a slitter arm coupled to the slitter frame (B), a leading slitter shaft (4a) and a trailing slitter shaft (4d) both rotatably supported by the slitter frame (Fig. 1), at least one intermediate slitter shaft (4f)

Art Unit: 3724

rotatably supported by the slitter arm (Fig. 2), each of the slitter shafts extend transversely to the feed direction (4a-g), and at least one of the blades is rotatably supported on each of the slitter shafts (1a-g and 4a-g).

In regards to claim 12, Allen discloses the plurality of circular blades comprises a first pair of coaxial circular blades spaced apart in a direction transverse to the feed direction by a first distance (1a and 1e) and a second pair of coaxial circular blades spaced apart in a direction transverse to the feed direction by a second distance, less than the first distance and offset in the feed direction from the first pair (1b and 1f).

In regards to claim 13, Allen discloses a third pair of coaxial circular blades spaced apart in a direction transverse to the feed direction by a third distance, less than the second distance and offset in the feed direction from the second pair (1c and 1g).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Allen in view of Thrasher (3,645,304). Allen discloses the invention but fails to disclose a peeler foot disposed above the conveyance surface which biases the product toward the conveyance surface and prevent the product from adhering to and riding-up the sides of the circular blades. Thrasher teaches a peeler foot disposed above the conveyance surface which biases the product toward the conveyance surface and prevent the

Art Unit: 3724

product from adhering to and riding-up the sides of the circular blades (16). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Allen with a peeler foot, as taught by Thrasher, to keep the work piece flat against the conveyer to allow for a straight cut.

- 11. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Allen in view of Hurdle, Jr. (6,772,665). Allen discloses the invention but fails a chopping assembly positioned downstream of the slitter assembly to sever the strip of products transversely to the feed direction. Hurdle, Jr. teaches that it is old and well known to provide a chopping assembly positioned downstream of the slitter assembly to sever the strip of products transversely to the feed direction (28). Hurdle, Jr. discloses a piece of wood being transversely cut into a smaller piece (26) and it is old and well known that the piece of wood does not start off as the rectangle shown in Figure 1. That being said, it is clear that the work piece must have been slit before or upstream of the chopper. Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Allen with a chopping assembly, as taught by Hurdle, Jr., to cut the work piece transversely to create a more manageable piece.
- 12. Claims 1 and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberson et al. (3,779,117) in view of Allen. In regards to claim 1, Roberson et al. discloses the invention including a conveyor assembly that conveys the product in a feed direction and defines a conveyance surface (5), a slitter assembly positioned relative to and coupled to the conveyor assembly (2, 4, 6, 8, and in Fig. 2 the far left center slitter), and the slitter assembly includes a plurality of cutting elements (2, 4, 6, 8,

Art Unit: 3724

and center slitter) arranged in a V shape as viewed in a direction substantially normal to the conveyance surface (Fig. 2).

In regards to claim 12, Roberson et al. discloses the plurality of circular blades comprises a first pair of coaxial circular blades spaced apart in a direction transverse to the feed direction by a first distance (8) and a second pair of coaxial circular blades spaced apart in a direction transverse to the feed direction by a second distance, less than the first distance and offset in the feed direction from the first pair (6).

In regards to claim 13, Roberson et al. discloses a third pair of coaxial circular blades spaced apart in a direction transverse to the feed direction by a third distance, less than the second distance and offset in the feed direction from the second pair (4).

In regards to claim 14, Roberson et al. discloses a fourth pair of coaxial circular blades spaced apart in a direction transverse to the feed direction by a fourth distance, less than the third distance and offset in the feed direction from the third pair (2).

In regards to claim 15, Roberson et al. discloses the plurality of circular saw blades comprises a central circular blade positioned such that a plane defined by the cental circular blade intersects the midpoint of the first, second, third, and fourth distances and if offset in the feed direction from the fourth pair of circular blades (Fig. 2 far left center blade).

However, Roberson et al. fail to disclose the cutting elements overlap one another in the feed direction. Allen teaches that it is old and well known for blades in a V shape to overlap (Fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Roberson et al. with

Art Unit: 3724

overlapping blades, as taught by Allen, to reduce to overall length of the cutting apparatus.

Allowable Subject Matter

13. Claims 3, 8 (along with dependant claims 9-11), and 17 (with dependant 18) are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 3 discloses the limitation of a belt support frame with recesses that receive the belt when the above mounted blade depress the belt by cutting all the way through the work piece. Claim 8 discloses the limitation of a pivotal slitter arm to raise the intermediate slitter shaft. Claim 17 discloses the limitation of a chopper with an elliptical cutting motion to that has a downward severing motion and a feedward pushing direction.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Murray, Sturm, Reichstein, Van Berkel, Buroff, Hearden et al., Oleson, Van Erden et al., and Bleick.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Prone whose telephone number is (571) 272-4513. The examiner can normally be reached on 7:30-5:00, Mon - (every other) Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan N. Shoap can be reached on (571) 272-4514. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3724

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 15, 2005

Patent Examiner Jason Prone Art Unit 3724

T.C. 3700

Art Unit: 3724

